



# Preliminary Findings from **Per-SVR**,

# a Longitudinal Cohort of Hepatitis C Patients Who Achieved Sustained Virologic Response (SVR)

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#### **Study Rationale / Introduction**

**Hepatitis C virus (HCV)** can cause both acute and chronic hepatitis, ranging in severity from a mild illness lasting a few weeks to a serious, lifelong illness. HCV therapy has recently experienced a shift to a highly effective, safer, and shorter course direct-acting antivirals (DAA)-based therapy and this has been made available to hepatitis patients across Canada<sup>1</sup>.

BC is the province with the second highest rate of HCV in the country with an estimated **73,000** living with the virus<sup>2</sup>



#### **Objectives:**

- To measure patterns of HCV reinfection after achieving an undetectable viral load at the end of treatment (EOT) on DAA-based therapy;
- 2. To determine the threshold of risk reduction practices that protects against HCV reinfection after achieving an undectable viral load on DAA-based therapy;
- 3. To evaluate the potential impact of successful HCV treatment in terms of healthcare costs and resource utilization





## **Study Methods**

Per-SVR is an open prospective cohort study which began June 2017. Our aim is to recruit 730 participants throughout lower mainland, Vancouver Island, Fraser Valley, Interior, and Northern BC. (*Still recruiting ~ Please get in touch if you want to be involved*)

#### Recruitment via:

- Referrals from hospitals, clinics, and community outreach, peers
- Flyers, posters and bus adverts
- Community knowledge translation / HCV education

#### Study consists of:

- Interviewer-administered questionnaire and blood and urine samples
  - (Y1 every 3 months; Y2-5 every 6 months)
- Cash honoraria provided

#### Eligibility:

- Adult patients (19+)
- Achieved SVR12 using interferon-free DAA based therapy
- Reside in British Columbia, Canada





# **Preliminary Findings**

Study Period: June 2017 ~ Dec 2018 baseline characteristics of participants (n=220)

Variables	n=220 (%)	Variables	n=220 (%)
Gender:		HCV Re-infection	4 (<2%)
Men	152 (69%)		
Women	54 (29%)	Variables	<i>n</i> =220 (%)
Transgender	3 (2%)	Health Outcomes:	
Median Age (Q1, Q3)	53 (23; 86)	Living with HIV	35 (16%)
Substance Use:		Currently smoking	106 (48%)
Ever on methadone	63 (28%)	Indicated depressive symptoms (CESD-10 scale)	78 (36%)
Currently on methadone	40 (18%)		
Ever on prescription herion	7 (3%)	Ever experienced homelessness	116 (52%)
(diacetylmorphine)		Ever experienced physical abuse	87 (39%)
Ever on suboxone	25 (11%)		0 (40()
Currently on suboxone	5 (2%)	Difficulty accessing treatment programs	2 (4%)
Key Populations:		Genotype (most common):	
History of injection drug use	127 (57%)	1A	88 (47%)
Current injection drug use	27 (12%)	3A	57 (30%)
MSM	3 (4%)	Most common treatment type:	
Engaged Sex work	38 (17%)	Sofosbuvir/Velpatasvir (Epclusa)	119 (54%)
Substance use disorder	25 (55%)	Most common treatment Length:	
	25 (55%)	12 Weeks	177 (80%)





# **Ongoing challenges**

- Testing encouraged for Baby Boomers
- Public health concerns over reinfection
  - Athena cohort demonstrated that HCV treatment uptake led to the subsequent decline of HCV RNA positive patients from 4.2% in 2013 to 1.5% at the end of 2016<sup>1</sup>
- Barriers, including stigma, against people who use drugs

Among >45,000 people who use drugs who had confirmed HCV, 8% received DAAs; 3% achieved SVR<sup>2</sup>

## Summary

- Increasing HCV burden among British Columbians
- Treatment, alongside harm reduction efforts, may curb transmission rates, morbidity, & mortality
- Findings will inform new evidence on the expansion of Treatment as Prevention (TasP) in HCV
- Community and peer engagement, HCV education is are key to treating HCV and preventing transmission